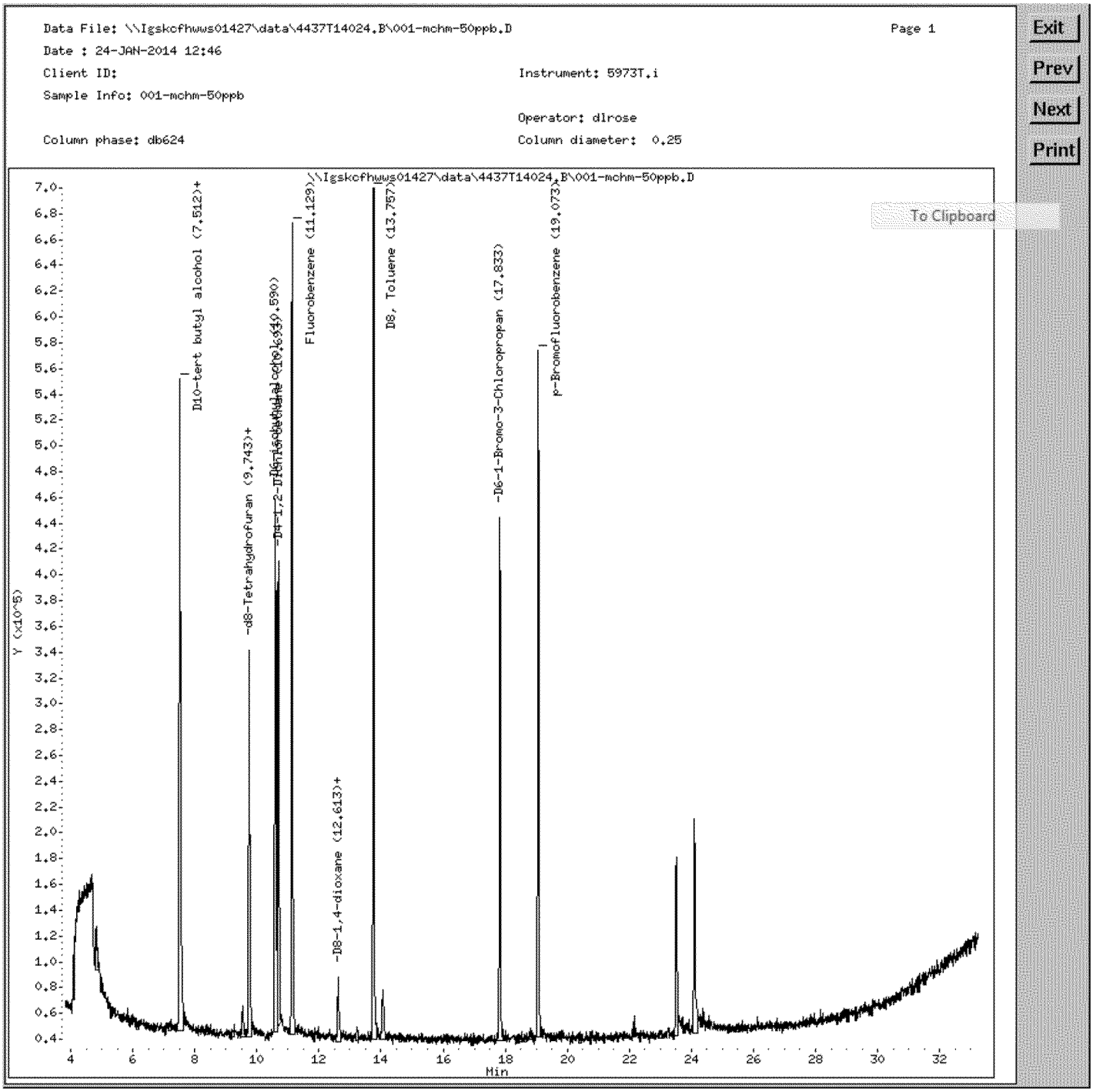
To: Foreman, William[wforeman@usgs.gov]
Cc: Warner, Sue[Warner.Sue@epa.gov]; Caporale, Cynthia[Caporale.Cynthia@epa.gov]; Zawodny, Peggy[Zawodny.Peggy@epa.gov]; Donna Rose[dlrose@usgs.gov]; John Zogorski[jszogors@usgs.gov]; Duane Wydoski[dwydoski@usgs.gov]; Lucinda Murtagh[lmurtagh@usgs.gov]; David Reppert[dreppert@usgs.gov]
From: Rose, Donna
Sent: Fri 1/24/2014 9:39:48 PM
Subject: Re: purge conditions
Table.5.4437.OperatingCond.April28.xlsx

Hi Everyone
I got the standard in for 4-methyl-1-cyclohexanemethane and ran a 50 ug/L standard on my system. The mass spec is in full scan/sim simultanous mode. The operating conditions are listed in the attached excel file.

I got two peaks, one at 23.514 minutes and one at 24.094 minutes. Both matched the NIST reference spectra beautifully. I don't know which peak is the cis isomer and which is the trans isomer. TCI had a purity of 99.8% for the total isomer purity. I left a message with technical support to see if they had additional information on the percentages of each isomer.

The response is beautiful in the full scan mode. The second peak is slightly bigger than the first but not by much. The two peaks at the end of the chromatogram are the MCHM isomers.

full scan data file



Donna Rose, Chemist
U. S. Geological Survey
303-236-3283

On Thu, Jan 23, 2014 at 3:19 PM, Foreman, William <wforeman@usgs.gov> wrote:

> Sue,
> Thanks for the info and call. We'll let you know how it goes for us.
> Bill

On Thu, Jan 23, 2014 at 2:36 PM, Warner, Sue <Warner.Sue@epa.gov> wrote:

> Recommended Operating Conditions for Purge and Trap Apparatus for Volatiles in Soil Analysis (Low Level) Using the Archon Autosampler

Operating Parameter	**Setting**
Sample Type	Soil
Sample Volume	5 or 10 mL (adds 5 or 10 mL: 10 mL for samples and blanks and 5 mL for standards and spikes)
Rinse Volume	25 mL
Number of Rinses	2
Standard 1	Yes
Standard 2	No
Soil Preheat Stir	Yes
Stir	Yes
Syringe Flushes	2
Preheat	Yes
Preheat Temperature	40 °C
Preheat Time	1.5 min.
Purge Time	11.0 min.
Desorb Time	2.0 min
Operational Mode	Remote
Cycle Timer	38.3 min
Aux Time	0.0 min
Purge Gas Pressure	20 psi
Flow	35-40 mL/min

> The trap used is a VOCARB 3000.

From: Caporale, Cynthia
Sent: Thursday, January 23, 2014 4:18 PM
To: Warner, Sue; Zawodny, Peggy
Subject: FW: purge conditions

FYI – feel free to speak to the voc analyst directly or if you want a conference call I'd be willing to help set one up.

From: Foreman, William [mailto:wforeman@usgs.gov]
Sent: Thursday, January 23, 2014 4:10 PM
To: Caporale, Cynthia
Cc: Donna Rose; William Foreman
Subject: purge conditions

Hi Cindy,

I'd appreciate your checking with your P&T analyst regarding the following conditions used:

purge temp

purge time

purge volume

type of trap

I've cc'd our lead VOC analyst, Donna Rose. If your analyst has time for a brief call today or tomorrow, please have them call Donna at 303-236-3283. Or we can set a time and do it as a conference call.

If you happen to have any handy details about the ERT mobile lab's method, that would be helpful.

We greatly appreciate the help/guidance!

Bill

William T. Foreman, Ph.D.

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